

CLAIMS

1. A battery pack for a power tool, comprising:
 - a casing within which a rechargeable cell or cells is
 - 5 or are housed,
 - a receiving bay formed in the casing and into which slide-in parts of the power tool, or of a recharging stand can be received to thereby retain the battery pack,
 - a pair of primary electrical contacts in or adjacent to the receiving bay and electrically associated with the rechargeable cell or cells,
 - 10 a recess that opens into the receiving bay,
 - a supplementary electrical contact located within the recess, and
 - 15 a user-manipulable catch located within the recess alongside the supplementary electrical contact.
2. A combination of the battery pack as claimed in Claim 1, a power tool and a recharging stand, wherein the power tool includes slide-in parts receivable into the receiving bay and a pair of electrical contacts for connection with the primary electrical contacts of the battery pack respectively, and wherein the recharging stand includes slide-in parts receivable into the receiving bay and a pair of primary and a supplementary electrical contacts for connection with the primary and supplementary electrical contacts of the battery pack respectively.

3. The combination as claimed in Claim 2, wherein the catch is configured to co-operate with the power tool, but not with the recharging stand.
- 5 4. The combination as claimed in Claim 2, wherein the supplementary electrical contact of the battery pack is configured to co-operate with the recharging stand, but not with the power tool.
- 10 5. The combination as claimed in Claim 2, wherein the catch does not engage with the recharging stand, but the supplementary electrical contact of the battery pack makes contact with the recharging stand.
- 15 6. The combination as claimed in Claim 2, wherein when the battery pack is attached to the power tool, its catch secures the battery pack to the power tool mechanically, but its supplementary electrical contact does not make electrical contact with the power tool.
- 20 7. The combination as claimed in any one of Claims 2 to 6, wherein the receiving bay includes rails to be received within tracks of the power tool or recharging stand.
- 25 8. The battery pack as claimed in Claim 1, wherein the user-manipulable catch includes a trigger accessible from the casing exterior.

9. The battery pack as claimed in Claim 1, wherein the catch includes at least one catch member for mechanical interaction with a co-operable part of a power tool.

5 10. The battery pack as claimed in Claim 1, wherein the primary electrical contacts and the supplementary electrical contact are elongate and parallel with one another.

10 11. The battery pack as claimed in Claim 10, wherein the supplementary electrical contact is located centrally between the primary electrical contacts.

12. The battery pack as claimed in Claim 1, wherein the
15 recess is located centrally between the primary electrical contacts.

13. The battery pack as claimed in Claim 9, wherein the catch includes a pair of the catch members, and the
20 supplementary electrical contact is located centrally between the two catch members.

14. The battery pack as claimed in Claim 1, including a temperature sensor electrically associated with the
25 supplementary electrical contact.